

02/443 110

ABSTRACT OF THE DISCLOSURE

If Y, M, C, and K color component images are serially generated by one color component image generating device in four steps, it takes much time to perform image processing for printing a one-page full-color image. This makes it impossible to increase the printing speed. In addition, since conversion to Y, M, C, and K data is performed before rendering, rendering logic cannot be faithfully implemented, resulting in poor color reproducibility. In order to solve these problems, image generating devices (103 - 105) respectively render R, G, and B color component images in bitmap memories 106 to 108, which are divided into areas in units of predetermined bands obtained by dividing a page, on the basis of a display list which is common to R, G, and B data and stored in a memory (102). The rendered color component images on a band basis are converted into C, M, Y, and K color component images by a color space converter (109) in synchronism with the operation of a printer engine.